```
In [ ]:    # Connecting To The MongoDB

In [3]:    import pymongo  # DS5B 2112
           client = pymongo.MongoClient("mongodb://localhost:27017/")
           client

Out[3]:    MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True)

In [ ]:    # Databases List

In [4]:    client.list_database_names() # DS5B 2112

Out[4]:    ['admin', 'config', 'local']

In [ ]:    # DB Create

In [5]:    mydb = client["admin"]  # the DB will not show in list untill unless data is inserted in

In [ ]:    # Creating Collection inside DB

In [6]:    collection1 = mydb["New_Patient"]

In [ ]:    # Inserting a Single record

In [7]:    record = {"Patient1": {
               "Name": "Piyush Joshi",
               "Age": 22,
               "Address": {
                 "City": "Indore",
                 "State": "Madhya Pradesh",
                 "Country": "India"
               },
               "Mobile Number": [
                 7047436645,
                 8982161294
               ],
               "Assigned_Doctor": {
                 "D_name": "Kuku Joshi",
                 "D_age": 54,
                 "D_Specialisation": "Cardiologist"
               },
               "Diagonosis_For": "Cardiac Arrest",
               "Stay_Days": 5,
               "Bill": 5000}}
           collection1.insert_one(record)

Out[7]:    <pymongo.results.InsertOneResult at 0x22630387340>

In [ ]:    # Deleting A Record

In [8]:    collection1.delete_one({"Patient1.Diagonosis_For":"Cardiac Arrest"})

Out[8]:    <pymongo.results.DeleteResult at 0x226314e90f0>

In [ ]:    # Updating A Record

In [16]:   collection1.update_one({"Patient1.Age":22}, {"$set":{"Patient1.Age":25}})
```

```
Out[16]:   <pymongo.results.UpdateResult at 0x2263155d180>

In [17]:   for i in collection1.find():
               print(i)

           {'_id': ObjectId('62930b0eefef3d573bd5005b'), 'Patient1': {'Name': 'Piyush Joshi', 'Ag
           e': 25, 'Address': {'City': 'Indore', 'State': 'Madhya Pradesh', 'Country': 'India'}, 'M
           obile Number': [7047436645, 8982161294], 'Assigned_Doctor': {'D_name': 'Kuku Joshi', 'D_
           age': 54, 'D_Specialisation': 'Cardiologist'}, 'Diagonosis_For': 'Cardiac Arrest', 'Stay
           _Days': 5, 'Bill': 5000}}

In [ ]:    # Finding a record

In [12]:   query1 = {"Patient1.Address.City":"Indore"}

           results = collection1.find(query1)
           for data in results:
               print(data)

           {'_id': ObjectId('62930b0eefef3d573bd5005b'), 'Patient1': {'Name': 'Piyush Joshi', 'Ag
           e': 22, 'Address': {'City': 'Indore', 'State': 'Madhya Pradesh', 'Country': 'India'}, 'M
           obile Number': [7047436645, 8982161294], 'Assigned_Doctor': {'D_name': 'Kuku Joshi', 'D_
           age': 54, 'D_Specialisation': 'Cardiologist'}, 'Diagonosis_For': 'Cardiac Arrest', 'Stay
           _Days': 5, 'Bill': 5000}}

In [ ]:
```